

ESTEC design

The Optasound ESTEC is a totally integrated post-production console specifically designed and manufactured in the U.S.A. for the production of professional lip-synchronous Super 8mm sound films. It had the benefit of total design freedom for the single purpose of conforming to the professional filmmaker's creative and technical needs. The ESTEC provides a facility whereby an individual's idea, from concept to finished film, may be translated by the filmmaker himself — alone and in complete control of all aspects of the medium.

ESTEC functions

Resolving Original Sync Tracks

The ESTEC emits a digital one pulse per frame (1/f) signal at 24fps and 18fps, which serves as a sync registration signal to a Digital self-resolving recorder (eg the Optasound 116R recorder, etc.).

The ESTEC can be optionally ordered with a 60Hz AC line control. This unit emits a Digital 1/F pulse as well as lock into the AC line frequency for resolve/transfer functions with Pilotone — type original sync recordings (eg the Optasound 116R/60Hz, 116R/Crystal, etc.).

Original sync recordings may be resolved onto any fullcoat track or film stripe on the ESTEC.

Sync Sound Transfer

INTERNAL:

- fullcoat to fullcoat.
- film to fullcoat.
- fullcoat to film.
- film to film.

EXTERNAL:

- external audio tracks to fullcoat.
- external audio tracks to film
- fullcoat to external audio tracks.
- film to external audio tracks.

Sound Mixing

INTERNAL:

- tracks 2 and 3 to track 1 or film
- sync or non-sync tracks from any external source may be mixed simultaneously.

EXTERNAL:

Any or all of the ESTEC's tracks plus any external sync or non-sync tracks can be mixed to an external recorder. If desired the audio can be mixed/transferred with a sync track to a synchronous recorder (eg any of the Optasound 116R recorders).

Film & Sound Synchronization

The two fullcoat movements and the film movement can be operated synchronously or independently at set speeds of 24fps and 18fps and at variable speeds of 0 — 65fps forward or reverse.

The sound tracks may be electronically cued for automatic sync recall with the picture.

Sound Editing

Sound editing is accomplished electronically, automatically and splicelessly by placing a push-button cue mark at the precise beginning and end "frame" of the selected section of sound. The section bracketed by the electronic cues is automatically edit/transferred to a selected master track. These cues can be erased and replaced at will so that many variations of a single cut can be reviewed without the usual procedure of recutting and resplicing.

Tape heads and paths are completely exposed for easy lacing, marking or, if desired, cutting and splicing.

Film Editing

Film editing can be accomplished independently or synchronously with any of the ESTEC's audio tracks. The film can be run at set or variable speeds in sync with the other movements or up to 150fps forward or reverse when run independently.

The viewer has a raisable light housing for easy access to the picture frame in the gate.

Sound Shaping

Each of the ESTEC's sound tracks may be independently brought out of the ESTEC and fed back in again via filters, DBX, Dolby or other sound enhancing and shaping systems.

Sound Quality

The unique design and the technical precision of the ESTEC provides the filmmaker with the best possible sound quality on both fullcoat and film stripe after multiple transfer generations.

Transports

The ESTEC's three transport systems give the operator the widest possible choice of path, direction and speed of both fullcoat and film. The transports can be selectively operated, independently or synchronously, at fixed or variable speeds, inched or rocked manually, forward or reverse.

Accessories

60Hz/50Hz AC line control for transfer from Pilotone self-resolving recorders (eg Optasound 116R/60Hz/50Hz). This unit will also emit a Digital 1/F pulse. (No. 10175)

Digital frame counter. Plug-in module with separate resettable read-outs for each movement. (No. 10375)

16mm film facility with Super 8mm fullcoat. (No. 10875)